

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 08334505 A

(43) Date of publication of application: 17.12.1996

(51) Int. Cl. G01N 30/60

(21) Application number: 08166933
(22) Date of filing: 06.06.1996
(30) Priority: 07.06.1995 US 95 486024

(71) Applicant: HEWLETT PACKARD CO <HP>
(72) Inventor: SWEDBERG SALLY A
KALTENBACH PATRICK
WITT KLAUS E
BEK FRITZ
MITTELSTADT LAURIE S

(54) SMALL-SIZED TOTAL ANALYSIS SYSTEM

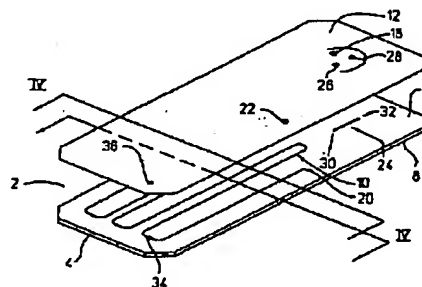
(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a small-sized column device by composing a substrate of a material selected to avoid the inherent chemical activity and instability of pH thereby substantially laser cutting a flat, substrate.

SOLUTION: The small-sized total analysis system comprises a small-sized column device 2, i.e., a substrate 4 having substantially flat first and second surfaces 6, 8 facing each other. The substrate 4 has a first microchannel 10 made by laser cutting the surface 6 and composed of a material other than silicon or silicon dioxide. The system comprises the substrate 4 where the channel 10 has at least two sample treating regions 202, 204, 206-220, and a cover plate 12 disposed on the surface 6 thereof and combined with the

channel 10 to form a first sample treating section 14. Each region 202-220 is provided with at least one inlet port 18 and outlet port 22 for communicating through fluid with the sample treating elements (214, 216-220) thence with the cover plate 12 defining the elements 202-212 and the section 14 thus passing the fluid from an external fluid source through the section 14.

COPYRIGHT: (C)1996,JPO



51457-2000500-10361

DELPHION

[Log Out](#) [Work Files](#) [Saved Searches](#)

RESEARCH

My Account

PRODUCTS

INSIDE DELPHION

Search: Quick/Number Boolean Advanced Derwent Help



The Delphion Integrated View

Get Now: ☒ PDF | [More choices...](#) Tools: Add to Work File: [Create new Work File](#) [Add](#)View: [INPADOC](#) | Jump to: [Top](#) Go to: [Derwent](#) ☒ Email this to a friend

Title: JP08334505A2: SMALL-SIZED TOTAL ANALYSIS SYSTEM

Derwent Title: Fully integrated miniaturised liquid sample handling and analysis device for liquid phase analysis of small or macromolecular solutes - uses laser ablation of microchannel into surface of planar substrate with channel covered to form sample processing compartment [Derwent Record]

Country: JP Japan

Kind: A

Inventor: SWEDBERG SALLY A;
KALTENBACH PATRICK;
WITT KLAUS E;
BEK FRITZ;
MITTELSTADT LAURIE S;

Assignee: HEWLETT PACKARD CO <HP>

[News, Profiles, Stocks and More about this company](#)

Published / Filed: 1996-12-17 / 1996-06-06

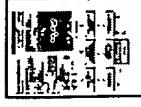
Application Number: JP1996000166933

IPC Code: G01N 30/60;

Priority Number: 1995-06-07 [US1995000486024](#)

Abstract: PROBLEM TO BE SOLVED: To obtain a small-sized column device by composing a substrate of a material selected to avoid the inherent chemical activity and instability of pH thereby substantially laser cutting a flat, substrate.

SOLUTION: The small-sized total analysis system comprises a small-sized column device 2, i.e., a substrate 4 having substantially flat first and second surfaces 6, 8 facing each other. The substrate 4

High
Resolution

has a first microchannel 10 made by laser cutting the surface 6 and composed of a material other than silicon or silicon dioxide. The system comprises the substrate 4 where the channel 10 has at least two sample treating regions 202, 204, 206-220, and a cover plate 12 disposed on the surface 6 thereof and combined with the channel 10 to form a first sample treating section 14. Each region 202-220 is provided with at least one inlet, port 18 and outlet port 22 for communicating through fluid with the sample treating elements 202-212 and the section 14 thus passing the fluid from an external fluid source through the section 14.

COPYRIGHT: (C)1996,JPO

INPADOC

None Get Now: [Family Legal Status Report](#)

Legal Status:

Designated


Country:

Family:

Show 31 known family members

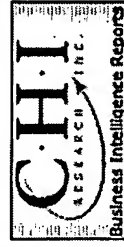
Forward
References:

Go to Result Set: [Forward references \(1\)](#)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6787017	2004-09-07	Hirabayashi; Atsumu	Hitachi, Ltd.	Capillary electrophoresis system, sample analyzer and liquid sample cassette for electrophoretic separation

Other Abstract
Info:

CHEMABS 124(24)331054J DERABS G96-202166



Nominate this for the Gallery...

THOMSON

Copyright © 1997-2005 The Thomson Corporation
Subscriptions | Web Seminars | Privacy | Terms & Conditions | Site Map | Contact Us | Help

BEST AVAILABLE COPY